

Title (en)
Doctor knife and method for producing said knife

Title (de)
Klinge für eine Schabvorrichtung und Verfahren zum Herstellen einer derartigen Klinge

Title (fr)
Racle et procédé de production d'une telle racle

Publication
EP 1557491 A3 20060906 (DE)

Application
EP 04029009 A 20041207

Priority
DE 102004004500 A 20040123

Abstract (en)
[origin: EP1557491A2] A printing press or papermaking assembly has a rotating drum with a surface skimming blade. The blade (18) consists of a main material matrix and an inner core (32) of filling material. There is a gradual transition between the core and the main matrix extending from the blade cutting edge to the blade clamping root zone. The filling material concentration increases towards the blade tip. The increase in concentration is linear. Also claimed is a manufacturing process in which the blade is made by injection molding of suitable materials into a form that is then centrifuged and cured.

IPC 8 full level
D21G 3/00 (2006.01); **B29C 39/42** (2006.01); **B29C 45/00** (2006.01); **B29C 45/16** (2006.01); **B29C 41/04** (2006.01); **B29C 45/27** (2006.01)

CPC (source: EP US)
B29C 39/42 (2013.01 - EP US); **B29C 45/0053** (2013.01 - EP US); **B29C 45/1634** (2013.01 - EP US); **B29C 69/02** (2013.01 - EP US); **D21G 3/005** (2013.01 - EP US); **B29C 41/04** (2013.01 - EP US); **B29C 45/0013** (2013.01 - EP US); **B29C 45/2708** (2013.01 - EP US); **B29C 2045/0089** (2013.01 - EP US); **B29K 2105/16** (2013.01 - EP US); **B29K 2995/0064** (2013.01 - EP US)

Citation (search report)
• [DA] WO 0015904 A1 20000323 - VALMET CORP [FI], et al
• [A] US 2002176934 A1 20021128 - RATA ILKKA [FI], et al
• [A] US 2002189777 A1 20021219 - RATA ILKKA [FI], et al
• [A] DE 4434546 C1 19951221 - SAECHSISCHE KUNSTSTOFFTECHNIK [DE], et al

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1557491 A2 20050727; **EP 1557491 A3 20060906**; **EP 1557491 B1 20090826**; AT E440998 T1 20090915; DE 102004004500 A1 20050811; DE 502004009960 D1 20091008; US 2005160551 A1 20050728

DOCDB simple family (application)
EP 04029009 A 20041207; AT 04029009 T 20041207; DE 102004004500 A 20040123; DE 502004009960 T 20041207; US 3810005 A 20050121